Thursday, 3/13/2008 10:17:43 AM Date User Kim Johnston **Process Sheet** : TUBE AASEMBLY : CU-DAR001 Dart Helicopters Services **Drawing Name** Customer : 37912 Job Number : 10108 **Estimate Number** : D2003031 Part Number P.O. Number : 3/13/2008 S.O. No. : **Drawing Number** This Issue : N/A Prsht Rev. : NC Project Number ; B : SMALL /MED FAB : // First Issue Type **Drawing Revision** : 30152 Material Previous Run : 3/28/2008 5 Um: Each **Due Date** Written By Checked & Approved By Comment **Additional Product** Job Number: Seq. #: Machine Or Operation: Description: DOCUMENT CONTROL DC Comment: DOCUMENT CONTROL Photocopy bluefile & type labels per PPP D2003-031 304 RD Tube .500 x .035W 2.0 M304TR0500W035 M107403 Comment: Qty. Total: 6.7253 f(s) 1.3451 f(s)/Unit Batch: M 107403 Material: 1/2"Æ x 0.035" wall AISI 304 SS tubing SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 . -1-Form tube as per template D2003-031 INSPECT WORK TO CURRENT STEP 4.0 QC5 Comment: INSPEC TO CURRENT STEP M26506 5:0 Firesleeve-crkl 375IDia Comment: Qty... 1.2768 f(s)/Unit Total: 6.3840 f(s) Material: M2650-6 Heat sleeve Batch: M106781 6.0 MS208198J Sleeve Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) M107650X6 Pick: **Qty Part Number** Description m107534 2 MS20819-8J Sleeve

Page 1

## Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES													
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvál QC Inspector								
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Part No	·	PAR #: Fault Category:	NCP. Voc	No DO	Δ.	Data	<del></del>								

Part No:	PAR #:	_ Fault Category:	NCR: Yes No DQA:	Date:
			QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	Verification A	Approval	Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspecto					
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NOTE: Date & initial all entries

Dąte: Thursday, 3/13/2008 10:17:43 AM User: Kim Johnston **Process Sheet** Drawing Name: TUBE AASEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 37912 Part Number: D2003031 Job Number: Description: Seq. #. Machine Or Operation: 7.0 AN8188J Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: Description **Qty Part Number** Batch M106074 2 AN818-8J Nut D2182045 Heat Shrink 4.5" Long 8.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s) Pick: Qty Part Number / Description Batch B21864A D2182-045 Heat shrink SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Cut 304SS Tube as per template D2003-031 (15.38" long) 2-Cut: Heat Sleeve 14.60" long as per Dwg D2003 3-Assemble as per Dwg D2003 10.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP PACKAGING <sup>2</sup> PACKAGING RESOURCE #1 11.0 Comment: PACKAGING RESOURCE#1 Identify and Stock Location: 12.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



VmF 08-04-09

<b>W</b> /O:	rospace L		W	ORK ORDER CHANG	SES	-				
DATE	STEP	PR	· T	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No		PAR #:	Fault Cate	gory:					Date: _ Date: _	
NCR:			WORK ORD	ER NON-CONFORM				4	Date	
DATE	STEP	Description of NC Section A	Initial Action Description Chief Eng Chief Eng					ation on C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries





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CHEC	KEP .	APPROVED	DRAWING NO. REV. B
4	45	1 47	D2003 SHEET 1 OF 2
DATE	,		TITLE SCALE
99.0	6.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
Α		90.04.09	NEW ISSUE
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S;

RELEASED 44.06.08 KED

UNDER REVIEW

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P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE <sup>2</sup>	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC.	MATERIAL <sup>4/8/7</sup>	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12			-		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19,63			1		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44		-			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54	l				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0			]					HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60			]		2	2	TUBÉ ASS'Y	6061-T6 0.375 OD X 0:035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	_2	TUBE ASS'Y	6061-T6 0.375 OD& 0.035 W	WW-T-700/6
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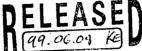
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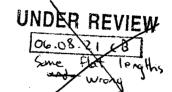




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## Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

